

<b>REPORT DOCUMENTATION PAGE</b>			Form Approved OMB NO. 0704-0188		
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1. REPORT DATE (DD-MM-YYYY) 02-11-2015		2. REPORT TYPE Final Report		3. DATES COVERED (From - To) 1-Jun-2015 - 30-Nov-2015	
4. TITLE AND SUBTITLE Final Report: FASEB Science Research Conference on Ion Channel Regulation			5a. CONTRACT NUMBER W911NF-15-1-0238		
			5b. GRANT NUMBER		
			5c. PROGRAM ELEMENT NUMBER 611102		
6. AUTHORS Amy Lee University of Iowa			5d. PROJECT NUMBER		
			5e. TASK NUMBER		
			5f. WORK UNIT NUMBER		
7. PERFORMING ORGANIZATION NAMES AND ADDRESSES Federation of American Societies for Experi 9650 Rockville Pike  Bethesda, MD 20814 -3998			8. PERFORMING ORGANIZATION REPORT NUMBER		
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS (ES) U.S. Army Research Office P.O. Box 12211 Research Triangle Park, NC 27709-2211			10. SPONSOR/MONITOR'S ACRONYM(S) ARO		
			11. SPONSOR/MONITOR'S REPORT NUMBER(S) 66741-LS-CF.2		
12. DISTRIBUTION AVAILABILITY STATEMENT Approved for Public Release; Distribution Unlimited					
13. SUPPLEMENTARY NOTES The views, opinions and/or findings contained in this report are those of the author(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other documentation.					
14. ABSTRACT Ion channels and transporters are proteins that provide a pathway for movement of aqueous ions across cell membranes. Regulation of ion channel function is essential for physiological functions including pain, nervous signaling and beating of the heart. The study of ion channel structure and function requires technically challenging strategies applied to membrane proteins, such as labeling with unnatural amino acids, advanced single-molecule fluorescence and microscopy, and x-ray crystallography. This grant provided support for a conference that brought together scientists from a wide variety of disciplines but with several common goals: a fuller understanding of how					
15. SUBJECT TERMS FASEB, Conference, Ion Channels, Research Conference, Regulation,					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	15. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
a. REPORT UU	b. ABSTRACT UU	c. THIS PAGE UU			Amy Lee
					19b. TELEPHONE NUMBER 319-384-1762



## Report Title

Final Report: FASEB Science Research Conference on Ion Channel Regulation

### ABSTRACT

Ion channels and transporters are proteins that provide a pathway for movement of aqueous ions across cell membranes. Regulation of ion channel function is essential for physiological functions including pain, nervous signaling and beating of the heart. The study of ion channel structure and function requires technically challenging strategies applied to membrane proteins, such as labeling with unnatural amino acids, advanced single-molecule fluorescence and microscopy, and x-ray crystallography. This grant provided support for a conference that brought together scientists from a wide variety of disciplines but with several common goals: a fuller understanding of how ion channels function, how they are regulated, what happens when they dysfunction, and how ion channels may be targeted with small-molecule modulators. Funds were used to specifically support speakers applying innovative chemical, physical, and mathematical strategies for the study of ion channels. The primary aim of this conference was to provide a synergistic environment fostering cross-disciplinary interactions and training opportunities to improve our understanding of ion channel regulation and how it influences human health and disease.

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**Enter List of papers submitted or published that acknowledge ARO support from the start of the project to the date of this printing. List the papers, including journal references, in the following categories:**

**(a) Papers published in peer-reviewed journals (N/A for none)**

Received

Paper

**TOTAL:**

**Number of Papers published in peer-reviewed journals:**

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**(b) Papers published in non-peer-reviewed journals (N/A for none)**

Received

Paper

**TOTAL:**

**Number of Papers published in non peer-reviewed journals:**

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**(c) Presentations**

Number of Presentations: 0.00

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**Non Peer-Reviewed Conference Proceeding publications (other than abstracts):**

Received      Paper

11/02/2015    1.00    Amy Lee, University of Iowa. FASEB Science Research Conference on Ion Channel Regulation, FASEB Science Research Conference on Ion Channel Regulation. 28-JUN-15, . : ,

**TOTAL:            1**

Number of Non Peer-Reviewed Conference Proceeding publications (other than abstracts):

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**Peer-Reviewed Conference Proceeding publications (other than abstracts):**

Received      Paper

**TOTAL:**

Number of Peer-Reviewed Conference Proceeding publications (other than abstracts):

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**(d) Manuscripts**

Received      Paper

**TOTAL:**

Number of Manuscripts:

Books

Received      Book

TOTAL:

Received      Book Chapter

TOTAL:

Patents Submitted

Patents Awarded

Awards

Graduate Students

<u>NAME</u>	<u>PERCENT_SUPPORTED</u>
FTE Equivalent:	
Total Number:	

Names of Post Doctorates

<u>NAME</u>	<u>PERCENT_SUPPORTED</u>
FTE Equivalent:	
Total Number:	

---

### Names of Faculty Supported

NAME

PERCENT SUPPORTED

**FTE Equivalent:**

**Total Number:**

---

### Names of Under Graduate students supported

NAME

PERCENT SUPPORTED

**FTE Equivalent:**

**Total Number:**

### Student Metrics

This section only applies to graduating undergraduates supported by this agreement in this reporting period

The number of undergraduates funded by this agreement who graduated during this period: ..... 0.00

The number of undergraduates funded by this agreement who graduated during this period with a degree in science, mathematics, engineering, or technology fields:..... 0.00

The number of undergraduates funded by your agreement who graduated during this period and will continue to pursue a graduate or Ph.D. degree in science, mathematics, engineering, or technology fields:..... 0.00

Number of graduating undergraduates who achieved a 3.5 GPA to 4.0 (4.0 max scale):..... 0.00

Number of graduating undergraduates funded by a DoD funded Center of Excellence grant for Education, Research and Engineering:..... 0.00

The number of undergraduates funded by your agreement who graduated during this period and intend to work for the Department of Defense ..... 0.00

The number of undergraduates funded by your agreement who graduated during this period and will receive scholarships or fellowships for further studies in science, mathematics, engineering or technology fields: ..... 0.00

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### Names of Personnel receiving masters degrees

NAME

**Total Number:**

---

### Names of personnel receiving PHDs

NAME

**Total Number:**

---

### Names of other research staff

NAME

PERCENT SUPPORTED

**FTE Equivalent:**

**Total Number:**

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**Sub Contractors (DD882)**

## **Inventions (DD882)**

### **Scientific Progress**

The speakers supported by this award presented their research that involved applying innovative chemical, physical, and mathematical strategies for the study of ion channels.

### **Technology Transfer**

NA

November 2, 2015

Dr. Fredrick D. Gregory  
ARO Technical Representative  
Program Manager,  
Neurophysiology and Cognitive Neuroscience,  
Life Sciences Division of the U.S. Army Research Office

Dear Dr. Gregory,

**Re: Submission of Army Research Grant W911NF-15-1-0238 Conference Proceedings**

Thank you for your support of the 2015 FASEB Science Research Conference on "*Ion Channel Regulation*" that was held June 28 – July 3, 2015. Please find attached the final report/conference proceedings for the aforementioned conference that was awarded the Grant W911NF-15-1-0238.

Also FASEB is not an accredited organization our conferences are not part of an educational program directed to continuing professional development. As such the funds were not used to pay and/or benefit any Healthcare Professional and Licensed Prescribers including licensed M.D.s, D.O.s, licensed chiropractors, optometrists, dentists, dental surgeons, podiatrists or teaching hospitals. The funds were not used to support any federal or government employee.

Thank you



Sherri-Gae Scott, Ph.D.  
Grants Proposal Manager  
FASEB Science Research Conferences  
Office of Sponsored Programs, Diversity & Grants Administration  
Ph: 301-634-7033  
Email: [sgscott@faseb.org](mailto:sgscott@faseb.org)



# ION CHANNEL REGULATION

JUNE 28 – JULY 3, 2015  
BIG SKY, MONTANA (USA)

CO-CHAIRS:

AMY LEE  
UNIVERSITY OF IOWA  
IOWA CITY, IOWA

PETER J. MOHLER  
OHIO STATE UNIVERSITY  
COLUMBUS, OHIO



# FASEB

Federation of American Societies  
for Experimental Biology

***Science Research Conferences***



# FASEB

Federation of American Societies  
for Experimental Biology

*Representing Over 120,000 Researchers*

301.634.7000  
www.faseb.org

9650 Rockville Pike  
Bethesda, MD 20814

On behalf of the Board of Directors of the Federation of American Societies for Experimental Biology (FASEB) and the Science Research Conferences Advisory Committee, it is my pleasure to welcome you to this Science Research Conference. I would like to thank you for attending, and for bringing your vision, knowledge, and experiences to share with your colleagues.

This week-long conference is an excellent opportunity for you to meet with researchers in your field from across the world. Please take full advantage of the speaker presentations, abstract short talks, poster sessions, meet the expert, and networking opportunities that are offered to encourage scientific discussion. Your conference organizers have been working hard to put together an exceptional and thought-provoking program.

Our sincere appreciation goes to the many people and supporters who helped bring this conference to fruition and to ensuring its success. It is our hope that FASEB may continue to bring inspired scientists together for years to come.

I wish you all the best for an outstanding experience!

Guy Fogleman, PhD  
Executive Director, FASEB  
Summer 2015

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The American Physiological Society • American Society for Biochemistry and Molecular Biology • American Society for Pharmacology and Experimental Therapeutics  
American Society for Investigative Pathology • American Society for Nutrition • The American Association of Immunologists • American Association of Anatomists  
The Protein Society • Society for Developmental Biology • American Peptide Society • Association of Biomolecular Resource Facilities  
The American Society for Bone and Mineral Research • American Society for Clinical Investigation • Society for the Study of Reproduction • The Teratology Society  
The Endocrine Society • The American Society of Human Genetics • International Society for Computational Biology • American College of Sports Medicine  
Biomedical Engineering Society • Genetics Society of America • American Federation for Medical Research • The Histochemical Society • Society for Pediatric Research  
Society for Glycobiology • Association for Molecular Pathology • Society for Free Radical Biology and Medicine

**FASEB GRATEFULLY ACKNOWLEDGES THE  
FOLLOWING SUPPORTERS**

**PLATINUM**

**NIH/NINDS<sup>\*</sup>  
U.S. Army Research Office<sup>†</sup>**

**GOLD**



**NIH/NIEHS/MDB, Inc.**

**SILVER**



**Amgen**

# **BRONZE**



## **ALA Scientific Instruments *Channels* Nanion Technologies, Inc.**

\* "Funding for this conference was made possible (in part) by 1R13NS092173-01 (revised) from the National Institutes of Health. The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does mention of trade names, commercial practices, or organizations imply endorsement by the U.S. Government. "

<sup>!</sup> Partial support was also provided by an U.S. Army Research Office award (W911NF-15-1-0238)

# **PROGRAM AGENDA**



# FASEB

Federation of American Societies  
for Experimental Biology

Science Research Conferences

[www.faseb.org/src](http://www.faseb.org/src)

## Ion Channel Regulation Conference June 28 - July 3, 2015 Huntley Lodge, Big Sky, MT

Organizers:

**Amy Lee, Ph.D.**

University of Iowa  
Iowa City, IA

**Peter J. Mohler, Ph.D.**

Ohio State University  
Columbus, OH

### Sunday, June 28, 2015

<b>Time</b>	<b>Title/Topic Event</b>	<b>Speaker, affiliation</b>
4:00 p.m. – 9:00 p.m.	Conference Registration	
5:00 p.m. – 6:00 p.m.	FASEB SRC Welcome Reception	
6:00 p.m. – 7:00 p.m.	DINNER	
<b>Session 1:</b>	<b><i>Cardiac ion transport</i></b>	
7:00 p.m. – 9:45 p.m.	<b>Chair:</b>	Daniel Minor (UCSF)
7:00 p.m. – 7:30 p.m.	<i>Calcium channel regulation in the fight-or-flight response</i>	William Catterall (U. Washington)
7:30 p.m. – 8:00 p.m.	<i>Of mitochondria, membrane domains, and mechano-sensing: A new look at Na/K pump regulation</i>	Don Hilgemann (UT Southwestern)
8:00 p.m. – 8:15 p.m.	<i>Neuronal Na<sup>+</sup> channels and the Microdomain Na<sup>+</sup>/Ca<sup>2+</sup> Signaling in Cardiac Myocytes: A novel role for Nav1.6 in Arrhythmogenic Diastolic Ca<sup>2+</sup> Release</i>	Przemysław Radwański (OSU)
8:15 p.m. – 8:30 p.m.	<b>Break</b>	

8:30 p.m.– 8:45 p.m.	<i>Non-linear threshold behavior in the induction of arrhythmias by channels bearing Timothy Syndrome mutations</i>	Ivy E. Dick (Johns Hopkins)— GSK Neuroscience Discovery Awardee
8:45 p.m. – 9:15 p.m.	<i>Mechanisms contributing to myocardial potassium channel diversity, regulation and remodeling</i>	Jeanne Nerbonne (Wash. U.)
9:15 p.m. – 9:45 p.m.	<i>Structure of a mammalian ryanodine receptor</i>	Andy Marks (Columbia U)

### **Monday, June 29, 2015**

<b><u>Time</u></b>	<b><u>Title/Topic Event</u></b>	<b><u>Speaker, affiliation</u></b>
7:30 a.m. – 8:45 a.m.	BREAKFAST	
8:45 a.m. – 9:00 a.m.	Welcome from FASEB	
7:30 a.m. – 12:00 p.m.	Conference Registration	
<b><u>Session 2:</u></b>	<b><u>Ion channel structure/function</u></b>	
9:00 a.m. – 12:00 p.m.	<b><u>Chair:</u></b>	Nael McCarty (Emory.U.)
9:00 a.m. – 9:30 a.m.	<i>Gating mechanisms of store-operated calcium channels</i>	Murali Prakriya (Northwestern U.)
9:30 a.m. – 10:00 a.m.	<i>Regulation of voltage-gated Ca channels by small G-proteins: mechanisms and applications</i>	Henry Colecraft (Columbia U.)
10:00 a.m. – 10:15 a.m.	<i>Modulation of mechanically-activated Piezo ion channels by magnetic force</i>	Jorg Grandl (Duke U.)-- GSK Neuroscience Discovery Awardee
10:15 a.m. – 10:45 a.m.	FASEB sponsored coffee break and group photo	
10:45 a.m. – 11:00 a.m.	<i>Non-traditional voltage-sensing domain modulation</i>	Susy Kohout (Montana State U.)
11:00 a.m. – 11:30 a.m.	<i>Atom-by-atom engineering of voltage-gated sodium channels</i>	Chris Ahern (U.Iowa)
11:30 a.m. – 12:00 p.m.	<i>Effects of bark scorpion (Centruroides) toxins on nociceptive Na<sup>+</sup> and K<sup>+</sup> ion channels: molecular and biophysical mechanisms of resistance in a scorpion predator (Onychomys)</i>	Ashlee Rowe (Michigan State U)
12:00 p.m. – 1:00 p.m.	Lunch	
1:00 p.m. – 4:00 p.m.	<b><u>Free afternoon</u></b>	

4:00 p.m. – 6:00 p.m.	<b>Poster Session 1</b>	
6:00 p.m. – 7:00 p.m.	DINNER	
<b>Session 3:</b>	<b><u>Channels and neuronal excitability</u></b>	
7:00 p.m. – 9:45 p.m.	<b>Chair:</b>	Mark Dell'Acqua (U.Colorado)
7:00 p.m. – 7:30 p.m.	<i>Genetic dissection of KCNQ2 and KCNQ3 function in the developing brain</i>	Anastasios Tzingounis (UCONN)
7:30 p.m. – 8:00 p.m.	<i>Modulation of neuronal excitability by sodium channel auxiliary subunits</i>	Geoff Pitt (Duke U)
8:00 p.m. - 8:15 p.m.	<i>Regulation of neuronal L-type Calcium channel-NFAT synapse-nucleus signaling by AKAP79/150</i>	Angela Wild (U.Colorado)
8:15 p.m. - 8:30 p.m.	Break	
8:30 p.m. - 8:45 p.m.	<i>Excitation-transcription coupling via the CaV1-CaMKII pathway demands a one-two punch: Ca2+ priming and voltage-dependent clustering</i>	Boxing Li (NYU)—SGP travel awardee
8:45 p.m. - 9:15 p.m.	<i>Background tonic firing rate controls dendritic Ca2+ signaling and synaptic gain in substantia nigra dopamine neurons</i>	Zayd Khaliq (NIH)
9:15 p.m. - 9:45 p.m.	<i>Linking abeta42-induced hyperexcitability to neurodegeneration, learning and motor deficits, and a shorter lifespan in an alzheimer's model</i>	Susan Tsunoda (Colorado State U)

## **Tuesday, June 30, 2015**

<b><u>Time</u></b>	<b><u>Title/Topic Event</u></b>	<b><u>Speaker, affiliation</u></b>
7:30 a.m. – 9:00 a.m.	BREAKFAST	
<b>Session 4:</b>	<b><u>Keeping the rhythm: pacemaking channels</u></b>	
9:00 a.m. - 12:00 p.m.	<b>Chair:</b>	Yarimar Carasquillo (NINDS/NIH)
9:00 a.m. - 9:30 a.m.	<i>Control of neuronal firing patterns by Kv1, Kv2, Kv3, Kv4, Kv7, BK, and SK potassium channels</i>	Bruce Bean (Harvard U.)



9:30 a.m. – 10:00 a.m.	<i>Rhythmic excitability in the circadian pacemaker: Big time for BK</i>	Andrea Meredith (U. Maryland)
10:00 a.m. - 10:15 a.m.	<i>Role of Na<sup>+</sup>/Ca<sup>2+</sup> exchange in the pacemaker activity of interstitial cells of Cajal</i>	Haifeng Zheng (Nevada)
10:15 a.m. - 10:45 a.m.	FASEB sponsored coffee break	
10:45 a.m. - 11:00 a.m.	<i>Disruption of the cytoplasmic gating ring by a mutation in HCN2 channel leads to generalized idiopathic epilepsy</i>	Leo Ng (U British Columbia)
11:00 a.m. - 11:30 a.m.	<i>HCN channels: how to control the controller</i>	Anna Moroni (U. Milan)
11:30 a.m. – 12:00 p.m.	<i>Cardiac arrhythmia induced by genetic silencing of 'funny' (f) channels is rescued by GIRK4 inactivation</i>	Matteo Mangoni (U.Montpelier)
12:00 p.m. – 1:00 p.m.	<b>Lunch</b>	
1:00 p.m. - 2:00 p.m.	<b>Meet the expert session 1: Structural biology of ion channels</b>	<i>Daniel Minor (UCSF)</i>
2:00 p.m. – 6:00 p.m.	<b>Free afternoon</b>	
6:00 p.m. – 7:00 p.m.	<b>Dinner</b>	
<b>7:00 p.m. – 8:00 p.m.</b>	<b>KEYNOTE ADDRESS:</b> <i>Potassium channel regulation in health and disease</i>	Lily Jan (UCSF)
<b>Session 5:</b>	<b><u>Intracellular channels</u></b>	
8:00 p.m. - 9:45 p.m.	Chair:	Greg Amberg (Colorado State U.)
8:00 p.m. - 8:30 p.m.	<i>Regulation of the mitochondrial calcium uniporter ion channel</i>	Kevin Foskett (U. Penn)
8:30 p.m. - 8:45 p.m.	Break	
8:45 p.m. - 9:15 p.m.	<i>Intracellular ion channels critical for pigmentation</i>	Elena Oancea (Brown U.)
9:15 p.m. - 9:45 p.m.	<i>Metabolic regulation of ion channels on endosomes and lysosomes</i>	Dejian Ren (U. Penn)

**Wednesday, July 1, 2015**

<b><u>Time a.m. – Time p.m.</u></b>	<b><u>Title/Topic Event</u></b>	<b><u>Speaker, affiliation</u></b>
7:30 a.m. – 9:00 a.m.	BREAKFAST	
<b><u>Session 6:</u></b>	<b><u>Ion channels and disease</u></b>	
9:00 a.m. - 12:15 p.m.	Chair:	Mike Tamkun (Colorado State U.)
9:00 a.m. - 9:30 a.m.	<i>KCNEs in complex disease states</i>	Geoff Abbott (UC-Irvine)
9:30 a.m. – 10:00 a.m.	<i>Defining new mechanisms underlying excitable cell disease</i>	Peter Mohler (OSU)
10:00 a.m. - 10:15 a.m.	<i>Piezo1 transduces extracellular matrix mechanical cues to direct neural stem cell differentiation</i>	Medha Pathak (UC Irvine)—GSK Neuroscience Discovery Awardee
10:15 a.m. - 10:45 a.m.	Break	
10:45 a.m. - 11:00 a.m.	<i>Pannexin 1 channels contribute to neuropathic pain</i>	Janelle L. Weaver (U Virginia)
11:00 a.m. - 11:30 a.m.	<i>Differential regulation of <math>Ca_v1.2</math> and <math>Ca_v1.3</math> <math>Ca^{2+}</math> channels by densin-180</i>	Amy Lee (U. Iowa)
11:30 a.m. – 12:00 p.m.	<i>BK<sub>Ca</sub> interacts with alpha-2-macroglobulin and the low-density lipoprotein receptor-related protein 1 (LRP1) to regulate calcium oscillations in human myometrial cells</i>	Sarah England (Wash U)
12:00 p.m. – 1:00 p.m.	Lunch	
<b>1:00 p.m. – 2:00 p.m.</b>	<b>Meet the expert session 2: Challenges in Neuroscience Research</b>	<i>Ricardo Dolmetsch (Novartis)</i>
2:00 p.m. – 4:00 p.m.	Free afternoon	
4:00 p.m. – 6:00 p.m.	<b>Poster Session 2</b>	
6:00 p.m. – 7:00 p.m.	<b>Dinner</b>	
<b><u>Session 7:</u></b>	<b><u>Localized ion channel signaling</u></b>	
7:00 p.m. - 9:45 p.m.	Chair:	Ricardo Dolmetsch (Novartis)
7:00 p.m. - 7:30 p.m.	<i>Regulation of trafficking of small conductance Ca-activated K channels by intracellular Ca and cytoskeletal interacting proteins</i>	Nipavan Chiamvimonvat (UC-Davis)

7:30 p.m. – 8:00 p.m.	<i>Kv7.1 surface expression; a regulatory mechanism for insulin secretion</i>	Nicole Schmitt
8:00 p.m. - 8:15 p.m.	The minimal ankyrin-G binding motif of Kv7 channels is necessary but not sufficient for localization to the axon initial segment	Louise Leth Hefting (Copenhagen)
8:15 p.m. - 8:30 p.m.	Break	
8:30 p.m. - 8:45 p.m.	<i>Molecular Mechanisms of Cav2.1 expression and functional organization at the presynaptic terminal</i>	Sam Young (MPFI)-- GSK Neuroscience Discovery Awardee
8:45 p.m. - 9:15 p.m.	<i>HCN1 channel trafficking to dendrites and axons</i>	Steven Siegelbaum (HHMI/ Columbia U)
9:15 p.m. - 9:45 p.m.	<i>Novel signaling to and from L-type Ca<sup>2+</sup> channels to drive gene expression</i>	Richard Tsien (NYU)

#### **Thursday, July 2, 2015**

<b><u>Time a.m. – Time p.m.</u></b>	<b><u>Title/Topic Event</u></b>	<b><u>Speaker, affiliation</u></b>
7:30 a.m. – 9:00 a.m.	BREAKFAST	
<b>Session 8:</b>	<b><u>Ion channel therapeutics</u></b>	
9:00 a.m. – 12:00 p.m.	<b><i>Chair:</i></b>	Federico Sesti (UMDNJ)
9:00 a.m. - 9:30 a.m.	<i>Targeting potassium channels for the treatment of rheumatoid arthritis</i>	Christine Beeton (Baylor)
9:30 a.m. – 10:00 a.m.	<i>Translational strategies targeting t-type calcium channels and absence epilepsy</i>	Terry Snutch (UBC)
10:00 a.m. - 10:15 a.m.	<i>Sex differences in GIRK signaling in layer 5/6 pyramidal neurons of the mouse prefrontal cortex</i>	Ezequiel Marron Fernandez de Velasco (U. Minnesota)—SGP Travel Awardee
10:15 a.m. - 10:30 a.m.	FASEB sponsored coffee break	
10:30 a.m. - 11:00 a.m.	<i>Lipid-gated ion channels; reevaluating the paradigm of ligand-gated</i>	Scott Hansen (Scripps)
11:00 a.m. - 11:30 a.m.	<i>Pharmacological modulation of membrane excitability</i>	Min Li (GSK)
11:30 a.m. – 12:00 p.m.	<i>Inside-out pharmacology of nicotinic acetylcholine receptors</i>	Henry Lester (Caltech)

12:00 p.m. – 1:00 p.m.	<b>Lunch</b>	
1:00 p.m. – 6:00 p.m.	<b>Free afternoon</b>	
6:00 p.m. – 7:00 p.m.	DINNER	
<b><u>Session 9:</u></b>	<b><u>Signaling pathways converging on ion channels</u></b>	
7:00 p.m. - 9:45 p.m.	Chair:	Erika Piedras-Renteria (Loyola U.)
7:00 p.m. - 7:30 p.m.	<i>Proteomics-based studies of ion channel regulation</i>	Jim Trimmer (UC-Davis)
7:30 p.m. – 8:00 p.m.	<i>TRPC5 regulation by Gq signaling and its role in hippocampal synaptic plasticity</i>	Dave Armstrong
8:00 p.m. - 8:15 p.m.	<i>Calcium regulation of Polycystic Kidney Disease (PKD) ion channels</i>	Paul DeCaen (HMS)
8:15 p.m. - 8:30 p.m.	Break	
8:30 p.m. - 8:45 p.m.	<i>FGF13 Regulates L-type Calcium Channel Hypertrophic Signaling within Cardiomyocyte Caveolae</i>	Eric Wei (Duke U.)
8:45 p.m. - 9:15 p.m.	<i>Subunit-dependent variations in stoichiometry and function in G protein-GIRK signaling complexes</i>	Nathan Dascal (Tel Aviv U)
9:15 p.m. - 9:45 p.m.	<i>PIP2 regulates ion channels and PIP2 is regulated</i>	Bertil Hille (U. Washington)

### **Friday, July 3, 2015**

<b><u>Time a.m. – Time p.m.</u></b>	<b><u>Title/Topic Event</u></b>	<b><u>Speaker, affiliation</u></b>
7:30 a.m. – 9:00 a.m.	BREAKFAST	
9:00 a.m.	DEPARTURES	

### **END OF CONFERENCE**

For additional information contact:  
FASEB Science Research Conferences  
9650 Rockville Pike  
Bethesda, MD 20814  
[www.faseb.org/src](http://www.faseb.org/src)

# **PARTICIPANT LIST**



# FASEB

Federation of American Societies  
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**Science Research Conferences**

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Ion Channel Regulation  
June 28 – July 3, 2015  
Big Sky, Montana (USA)

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# GENERAL INFORMATION

## GENERAL INFORMATION

<b><u>CONTACT INFORMATION</u></b>	Big Sky Resort Huntley Lodge 50 Big Sky Resort Road Big Sky, MT 59716 Telephone Number: 800-548-4486
<b><u>ALTITUDE</u></b>	Big Sky is 7,500 feet above sea level. In order to adjust to the altitude, please drink plenty of water, drink alcohol in moderation and exercise. Always wear sunscreen as the sun is very strong. Be prepared for cool nights, warm days, and afternoon showers and thunderstorms.
<b><u>ATMs</u></b>	Located within the Huntley Lodge, Mountain Mall, and Summit Hotel.
<b><u>BARS</u></b>	There are several bars located in the hotels and restaurants on the Big Sky campus.
<b><u>BUSINESS SERVICES</u></b>	The Business Center in the Mountain Mall provides modem lines, computer access and a printer as well as fax and photocopying services for a nominal fee. Please inquire at iRanch on the second floor of the Mountain Mall for more information.
<b><u>CHECK OUT</u></b>	Check out is on Friday morning at 11:00AM. Please remember to pay the hotel for any incidental expenses you have incurred during your stay.
<b><u>CLOSEST HOSPITAL</u></b>	Bozeman Deaconess Hospital 915 Highland Boulevard Bozeman, MT 59715 406-585-5000
<b><u>CLOSEST MEDICAL CLINIC</u></b>	Dr. Jeffrey Daniels 11 Lone Peak Drive, Suite 202, Big Sky, MT 59716 406-993-2797
<b><u>CODE OF CONDUCT</u></b>	<p>FASEB SRC expects all SRC attendees to respect and behave in a courteous and civilized fashion. It is expected that attendees will practice common sense rules for public behavior, personal interaction, common courtesy, and respect for private property while attending FASEB SRCs.</p> <p>Abusive, harassing, or threatening behaviors towards any other attendee, organizer, invited speaker, FASEB staff or venue staff will not be tolerated. Please report any incidents in which an attendee of the conference is abusive, insulting, intimidating, bothersome, or acting in an unsafe or illegal manner to the onsite FASEB staff immediately.</p>
<b><u>COFFEE BREAK</u></b>	Coffee service will be available in the Lone Peak Café. There will be one coffee service in the morning.



<b><u>EMERGENCIES</u></b>	Please dial 911. Please note you cannot connect with 911 while on the mountain. You will need to get to a base area or village.
<b><u>FASEB OFFICE LOCATION</u></b> <b><u>REGISTRATION HOURS</u></b>	<p>On Sunday, registration will be in the Huntley Lodge lobby.</p> <p>For the remainder of the conference, the FASEB Registration Desk is located on the second floor of the Mountain Mall directly outside the Mammoth Room. Hours are below:</p> <p><b><i>Registration Hours</i></b>  Sunday: 4:00 p.m. – 9:00 p.m.  Monday, Tuesday, Wednesday, &amp; Thursday: 7:30 a.m.– 12:00 p.m. &amp; 6:00 p.m. – 7:00 p.m.  Friday: 7:30 a.m. – 12:00 p.m.</p>
<b><u>GROUP PHOTO</u></b>	<p>The group photo will be taken during the Monday morning coffee break.</p> <p>Each conference participant will have access to a free full resolution digital download of the group photo taken on site, compliments of FASEB. The complete set of documents (the image file itself, the photo outline and the photo key identifying each person in the picture) will be available for download two weeks after the photo is taken. The download does not have an expiration date; you can get it whenever convenient. Please follow these instructions to access your photo:</p> <ol style="list-style-type: none"> <li>1. Follow this link: <a href="http://vividvisions.zenfolio.com/f75707261">http://vividvisions.zenfolio.com/f75707261</a> or copy and paste it into your browser.</li> <li>2. You will be asked for a password. The password is: <a href="#">2015faseb</a></li> <li>3. You will be taken to the master FASEB folder, from here you will need to navigate to the appropriate venue and date folder of your conference.</li> <li>4. Click on “Select Photos” in the upper right corner.</li> <li>5. Click on each image you wish to download or click on “Select All” in the upper left corner of the page.</li> <li>6. Click on “Download” in the upper right corner and the download will initiate. Please note: the folder you download will be a .zip folder – you will need to extract the folder into a location of your choice on the hard drive of your computer. If you don’t know how to extract a .zip file you’ll need to refer to your OS user manual. Unfortunately we are unable to list instructions on extracting a file for each version of every operating system.</li> </ol>

	<p>7. If you have any questions about accessing and downloading your photo, please e-mail Vivid Visions Photography at:  <a href="mailto:vividvisionsphoto@yahoo.com">vividvisionsphoto@yahoo.com</a></p> <p>For your convenience, you can also scan this QR code with your smart phone to access the photo.</p>  <p><a href="http://vividvisions.zenfolio.com/f75707261">http://vividvisions.zenfolio.com/f75707261</a></p>
<b><u>GUESTS AND CHILDREN</u></b>	Guests and children must be registered and paid as a guest to enjoy meals with attendees. Guests and children are not permitted to attend general or poster sessions.
<b><u>INTERNET ACCESS</u></b>	Complimentary internet access is available throughout the resort property. No password is required.
<b><u>MEALS</u></b>	All meals will be held in the Lone Peak Café. Check your program agenda for specific times.
<b><u>MEETING SPACE</u></b>	The General Session will be held in the Mammoth Room and Poster Sessions will be held in either the Lone Peak Café foyer or the back of the Mammoth room
<b><u>MESSAGES AND MESSAGE BOARD</u></b>	A message board is displayed on the second floor of the Mountain Mall, directly outside the Mammoth Room. If a message is received, it will be posted on the board. Sessions will not be interrupted unless it is an emergency. Please remember to periodically check the board.
<b><u>NAME BADGES</u></b>	Please wear your name badge at all times during general sessions, poster sessions and meals.
<b><u>OPENING RECEPTION &amp; DINNER</u></b>	The Opening Reception and Dinner will be held in the Huntley Dining Room.
<b><u>PARKING</u></b>	Parking is complimentary in designated areas. Valet parking and disabled parking are also available. Please let the front desk know you have a car in order to receive a parking tag.
<b><u>SHOPPING</u></b>	A number of shops are located on the Big Sky campus, including a grocery store in the Mountain Mall.
<b><u>SPEAKERS &amp; SESSION CHAIRS</u></b>	Please arrive at the Mammoth Room 30 minutes prior to your session to set-up your laptop for your presentation. A volunteer projectionist will be available to assist you if necessary.
<b><u>VALUABLES</u></b>	FASEB and the conference venue are not responsible for the damage or loss of personal valuables. If there is a safe in your room, please lock them up or arrange for a safety deposit box at the front desk.